CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/GMD/W.No.15/2022-23 Date : 19.07.2022

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	: **Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.**
Agency	: **Sri. Gnanendra Murthy M D. Contractor Bangalore**
Name of Work	: De-Silting and Re-setting of drain and Re-asphalting in Bhuvaneshwari Nagar and Surrounding Area in Ward No.15
Technical Reference	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Bituminous Concrete
Date of Testing	19.07.2022

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 500.16
1	Flakiness Index	12.5	12.9	Combined Flakiness & Elongation index Max 35%
2	Elongation Index	13.2	13.6	
	Combined Flakiness & Elongation index	25.70	26.50	

Note:

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

Assistant Executive Engineer
T. Dasarahalli Sub Div.
Basavaguntе, BBMP
Bangalore-560073

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Job No.: CACE/BBMP/GMD/W.No.15/2022-23 Date : 21.07.2022

Specific Gravity And Water Absorption Test

Client	: Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Agency	: Sri. Gnanendra Murthy M D. Contractor Bangalore
Name of the Work	: De-Silting and Re-setting of drain and Re-asphalting in Bhuvaneshwari Nagar and Surrounding Area in Ward No.15
BIS Code	IS 2386(Part 3):1963
Type of Mix	Bituminous Concrete
Date of Testing	19.07.2022 to 21.07.2022

Sl. No.	Details	Notation	Test Number			Mean Value
			Test 1	Test 2	Test 3	
1	Weight of aggregate suspended in water with the basket	W_1 g	2021	2023	2025	
2	Weight of basket suspended in water	W_2 g	752	754	756	
3	Weight of saturated aggregate in water	$(W_1 - W_2) = W_3$ g	1269	1269	1269	
4	Weight of saturated surface dry aggregate in air	W_3 g	2016	2018	2020	
5	Weight of water equal to the volume of the aggregate	$(W_3 - W_5)$ g	747	749	751	
6	Weight of oven dried aggregate	W_4 g	2010	2011	2012	
7	Specific Gravity	$W_4/(W_3-W_5)$	2.691	2.685	2.679	2.685
8	Apparent Specific gravity	$W_4/(W_4-W_5)$	2.713	2.710	2.708	2.710
9	Water Absorption	$((W_3-W_4)*100)/W_4$	0.30%	0.35%	0.40%	0.35%

Comments:

→ Maximum allowable Aggregate Water absorption value for Bituminous Concrete is 2.0%(MORTH table 500.16)

For CIVIL AIM CONSULTANTS & ENGINEERS

Assistant Executive Engine
T. Dasarahalli Sub Divisio
Bangalore. BBMP
Authorised Signatory 560073

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Job No.: CACE/BBMP/GMD/W.No.15/2022-23 Date: 23.07.2022

TEST REPORT ON STABILITY OF MIX

Client	:	**: Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.**
Agency	:	**: Sri. Gnanendra Murthy M D. Contractor Bangalore**
Name of the Work	:	: De-Silting and Re-setting of drain and Re-asphalting in Bhuvaneshwari Nagar and Surrounding Area in Ward No.15
Source of location	:	Hot mix Plant, Bangalore
Type of Mix	:	Bituminous Concrete
Date of Testing	:	23.07.2022

The results of the tests conducted on the Bituminous Concrete mix sample are as follows:

Sl. No	Description	Test Result 1	Test Result 2	Requirement as per MORTH (Table 500-19)
1	Marshal Stability, Kn	10.23	9.54	9 Kn (min)
2	Marshal flow, mm	3.65	2.34	2 – 4
3	Percent air voids in Mineral Aggregate	13.43	14.55	13 – 15
4	Voids in Compacted Mix	3.71	4.5	3 – 6
5	Percent Voids filled with Bitumen	70.4	71..10	65 - 75
6	Density, g/cc	2.23	2.26	--

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FOR CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/GMD/W.No.15/2022-23 Date: 23.07.2022

TEST REPORT ON STABILITY OF MIX

Client	:	**: Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.**
Agency	:	**: Sri. Gnanendra Murthy M D. Contractor Bangalore**
Name of the Work	:	: De-Silting and Re-setting of drain and Re-asphalting in Bhuvaneshwari Nagar and Surrounding Area in Ward No.15
Source of location	:	Hot mix Plant, Bangalore
Type of Mix	:	Bituminous Concrete
Date of Testing	:	23.07.2022

The results of the tests conducted on the Bituminous Concrete mix sample are as follows:

Sl. No	Description	Test Result 1	Test Result 2	Requirement as per MORTH (Table 500-19)
1	Marshal Stability, Kn	9.55	10.82	9 Kn (min)
2	Marshal flow, mm	2.55	2.56	2 – 4
3	Percent air voids in Mineral Aggregate	13.44	14.25	13 – 15
4	Voids in Compacted Mix	3.89	4.51	3 – 6
5	Percent Voids filled with Bitumen	69.33	69.88	65 - 75
6	Density, g/cc	2.21	2.23	--

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For CIVIL AIM CONSULTANTS & ENGINEERS

Assistant Executive Engineer
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Job No.: CACE/BBMP/GMD/W.No.15/2022-23 Date: 25.07.2022

TEST REPORT ON STABILITY OF MIX

Client	:	: Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Agency	:	: Sri. Gnanendra Murthy M D. Contractor Bangalore
Name of the Work	:	: De-Silting and Re-setting of drain and Re-asphalting in Bhuvaneshwari Nagar and Surrounding Area in Ward No.15
Source of location	:	Hot mix Plant, Bangalore
Type of Mix	:	Bituminous Concrete
Date of Testing	:	25.07.2022

The results of the tests conducted on the Bituminous Concrete mix sample are as follows:

Sl. No	Description	Test Result 1	Test Result 2	Requirement as per MORTH (Table 500-19)
1	Marshal Stability, Kn	9.65	9.85	9 Kn (min)
2	Marshal flow, mm	3.33	2.54	2 – 4
3	Percent air voids in Mineral Aggregate	13.65	14.25	13 – 15
4	Voids in Compacted Mix	3.87	4.61	3 – 6
5	Percent Voids filled with Bitumen	70.21	71.51	65 - 75
6	Density, g/cc	2.25	2.26	--

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For CIVIL AIM CONSULTANTS & ENGINEERS
Authorised Signatory

Assistant Executive Engineer
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Job No.: CACE/BBMP/GMD/W.No.15/2022-23 Date: 26.07.2022

TEST REPORT ON STABILITY OF MIX

Client	:	**: Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.**
Agency	:	**: Sri. Gnanendra Murthy M D. Contractor Bangalore**
Name of the Work	:	: De-Silting and Re-setting of drain and Re-asphalting in Bhuvaneshwari Nagar and Surrounding Area in Ward No.15
Source of location	:	Hot mix Plant, Bangalore
Type of Mix	:	Bituminous Concrete
Date of Testing	:	26.07.2022

The results of the tests conducted on the Bituminous Concrete mix sample are as follows:

Sl. No	Description	Test Result 1	Test Result 2	Requirement as per MORTH (Table 500-19)
1	Marshal Stability, Kn	9.48	9.95	9 Kn (min)
2	Marshal flow, mm	3.12	2.97	2 – 4
3	Percent air voids in Mineral Aggregate	13.22	14.35	13 – 15
4	Voids in Compacted Mix	3.63	4.66	3 – 6
5	Percent Voids filled with Bitumen	69.29	68.25	65 - 75
6	Density, g/cc	2.25	2.25	--

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For CIVIL AIM CONSULTANTS & ENGINEERS

Assistant Executive Engineer
T Dasarahalli Division
BBMP
Bangalore - 560073

Authorised Signatory

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Job No.: CACE/BBMP/GMD/W.No.15/2022-23 Date : 23.07.2022

BITUMEN CONTENT AND GRADATION DETERMINATION OF BITUMINOUS CONCRETE

AASHTO T 164 & AASHTO T 30

CLIENT	: Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
AGENCY	: Sri. Gnanendra Murthy M D. Contractor Bangalore
NAME OF THE WORK	: De-Silting and Re-setting of drain and Re-asphalting in Bhuvaneshwari Nagar and Surrounding Area in Ward No.15
SAMPLE ID	Hot Mix Plant, Bangalore
DATE OF TESTING	23.07.2022

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Sample 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	469.5	469
3. Weight of Asphalt and Mineral matter Extracted, g	30.5	31
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g	-	-
6. Weight of Bitumen Extracted, g. (corrected)	30.5	31
7. Bitumen content in %	6.10	6.20
8. Average	6.15	

GRADATION AFTER EXTRACTION

SIEVE SIZE	Test 1				Requirement as per MORTH table 500.17
mm	Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	
19	0	0	0	100	100
13.2	13.8	13.8	2.9	97.1	90 - 100
9.5	65.8	79.6	17.0	83.0	70 - 88
4.75	90.3	169.9	36.2	63.8	53 - 71
2.36	46.2	216.1	46.0	54.0	42 - 58
1.18	35.8	251.9	53.7	46.3	34 - 48
0.600	55.3	307.2	65.4	34.6	26 - 38
0.300	42.8	350	74.5	25.5	18 - 28
0.150	34.9	384.9	82.0	18.0	12 - 20
0.075	42.8	427.7	91.1	8.9	4 - 10

SIEVE SIZE	Test 2				Requirement as per MORTH table 500.17
mm	Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	
19	0	0	0	100	100
13.2	14.9	14.9	3.2	96.8	90 - 100
9.5	66.2	81.1	17.3	82.7	70 - 88
4.75	92.8	173.9	37.1	62.9	53 - 71
2.36	45.3	219.2	46.7	53.3	42 - 58
1.18	48.2	267.4	57.0	43.0	34 - 48
0.600	56.3	323.7	69.0	31.0	26 - 38
0.300	45.8	369.5	78.8	21.2	18 - 28
0.150	37.9	407.4	86.9	13.1	12 - 20
0.075	32.6	440	93.8	6.2	4 - 10

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

Assistant Executive Engineer
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Job No.: CACE/BBMP/GMD/W.No.15/2022-23 Date : 23.07.2022

BITUMEN CONTENT AND GRADATION DETERMINATION OF BITUMINOUS CONCRETE

AASHTO T 164 & AASHTO T 30

CLIENT	: Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
AGENCY	: Sri. Gnanendra Murthy M D. Contractor Bangalore
NAME OF THE WORK	: De-Silting and Re-setting of drain and Re-asphalting in Bhuvaneshwari Nagar and Surrounding Area in Ward No.15
SAMPLE ID	Hot Mix Plant, Bangalore
DATE OF TESTING	23.07.2022

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Sample 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	469	470
3. Weight of Asphalt and Mineral matter Extracted, g	31	30
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g	-	-
6. Weight of Bitumen Extracted, g. (corrected)	31	30
7. Bitumen content in %	6.20	6.00
8. Average	6.10	

GRADATION AFTER EXTRACTION

SIEVE SIZE	Test 1				Requirement as per MORTH table 500.17
mm	Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	
19	0	0	0	100	100
13.2	12.2	12.2	2.6	97.4	90 - 100
9.5	68.9	81.1	17.3	82.7	70 - 88
4.75	92.6	173.7	37.0	63.0	53 - 71
2.36	42.5	216.2	46.1	53.9	42 - 58
1.18	36.8	253	53.9	46.1	34 - 48
0.600	50.9	303.9	64.8	35.2	26 - 38
0.300	46.3	350.2	74.7	25.3	18 - 28
0.150	35.8	386	82.3	17.7	12 - 20
0.075	46.9	432.9	92.3	7.7	4 - 10

SIEVE SIZE	Test 2				Requirement as per MORTH table 500.17
mm	Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	
19	0	0	0	100	100
13.2	14.5	14.5	3.1	96.9	90 - 100
9.5	62.8	77.3	16.4	83.6	70 - 88
4.75	90.9	168.2	35.8	64.2	53 - 71
2.36	46.5	214.7	45.7	54.3	42 - 58
1.18	43.8	258.5	55.0	45.0	34 - 48
0.600	52.4	310.9	66.1	33.9	26 - 38
0.300	49.3	360.2	76.6	23.4	18 - 28
0.150	35.6	395.8	84.2	15.8	12 - 20
0.075	40.8	436.6	92.9	7.1	4 - 10

Assistant Executive Engineer

For CIVIL AIM CONSULTANTS & ENGINEERS

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3) Any corrections made to the report after the date of testing

Authorised Signatory

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Job No.: CACE/BBMP/GMD/W.No.15/2022-23 Date : 25.07.2022

BITUMEN CONTENT AND GRADATION DETERMINATION OF BITUMINOUS CONCRETE

AASHTO T 164 & AASHTO T 30

CLIENT	: Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
AGENCY	: Sri. Gnanendra Murthy M D. Contractor Bangalore
NAME OF THE WORK	: De-Silting and Re-setting of drain and Re-asphalting in Bhuvaneshwari Nagar and Surrounding Area in Ward No.15
SAMPLE ID	Hot Mix Plant, Bangalore
DATE OF TESTING	25.07.2022

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Sample 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	468.5	469
3. Weight of Asphalt and Mineral matter Extracted, g	31.5	31
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g	-	-
6. Weight of Bitumen Extracted, g. (corrected)	31.5	31
7. Bitumen content in %	6.30	6.20
8. Average	6.25	

GRADATION AFTER EXTRACTION

SIEVE SIZE	Test 1				Requirement as per MORTH table 500.17
mm	Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	
19	0	0	0	100	100
13.2	13.2	13.2	2.8	97.2	90 - 100
9.5	69.1	82.3	17.6	82.4	70 - 88
4.75	92.2	174.5	37.2	62.8	53 - 71
2.36	42.2	216.7	46.3	53.7	42 - 58
1.18	36.6	253.3	54.1	45.9	34 - 48
0.600	50	303.3	64.7	35.3	26 - 38
0.300	46.6	349.9	74.7	25.3	18 - 28
0.150	35.5	385.4	82.3	17.7	12 - 20
0.075	46.5	431.9	92.2	7.8	4 - 10

SIEVE SIZE	Test 2				Requirement as per MORTH table 500.17
mm	Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	
19	0	0	0	100	100
13.2	14.4	14.4	3.1	96.9	90 - 100
9.5	62.2	76.6	16.3	83.7	70 - 88
4.75	89.9	166.5	35.5	64.5	53 - 71
2.36	46.5	213	45.4	54.6	42 - 58
1.18	43.5	256.5	54.7	45.3	34 - 48
0.600	52.2	308.7	65.8	34.2	26 - 38
0.300	49.9	358.6	76.5	23.5	18 - 28
0.150	35.5	394.1	84.0	16.0	12 - 20
0.075	40.2	434.3	92.6	7.4	4 - 10

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Assistant Executive Engineer
T Dasarahalli Sub Division
Bagalagunte, BBMP
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For CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/GMD/W.No.15/2022-23 Date : 26.07.2022

BITUMEN CONTENT AND GRADATION DETERMINATION OF BITUMINOUS CONCRETE

AASHTO T 164 & AASHTO T 30

CLIENT	: Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
AGENCY	: Sri. Gnanendra Murthy M D. Contractor Bangalore
NAME OF THE WORK	: De-Silting and Re-setting of drain and Re-asphalting in Bhuvaneshwari Nagar and Surrounding Area in Ward No.15
SAMPLE ID	Hot Mix Plant, Bangalore
DATE OF TESTING	26.07.2022

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Sample 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	468.5	469.5
3. Weight of Asphalt and Mineral matter Extracted, g	31.5	30.5
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g	-	-
6. Weight of Bitumen Extracted, g. (corrected)	31.5	30.5
7. Bitumen content in %	6.30	6.10
8. Average	6.20	

GRADATION AFTER EXTRACTION

SIEVE SIZE mm	Test 1				Requirement as per MORTH table 500.17
	Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	
19	0	0	0	100	100
13.2	13.7	13.7	2.9	97.1	90 - 100
9.5	64.9	78.6	16.8	83.2	70 - 88
4.75	91.3	169.9	36.3	63.7	53 - 71
2.36	48.2	218.1	46.6	53.4	42 - 58
1.18	36.8	254.9	54.4	45.6	34 - 48
0.600	57.6	312.5	66.7	33.3	26 - 38
0.300	43.3	355.8	75.9	24.1	18 - 28
0.150	35.9	391.7	83.6	16.4	12 - 20
0.075	40.1	431.8	92.2	7.8	4 - 10

SIEVE SIZE mm	Test 2				Requirement as per MORTH table 500.17
	Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	
19	0	0	0	100	100
13.2	13.9	13.9	3.0	97.0	90 - 100
9.5	65.2	79.1	16.8	83.2	70 - 88
4.75	92.1	171.2	36.5	63.5	53 - 71
2.36	45.1	216.3	46.1	53.9	42 - 58
1.18	48.9	265.2	56.5	43.5	34 - 48
0.600	56	321.2	68.4	31.6	26 - 38
0.300	44.8	366	78.0	22.0	18 - 28
0.150	37.1	403.1	85.9	14.1	12 - 20
0.075	31.6	434.7	92.6	7.4	4 - 10

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